

Notice of Allowability	Application No.	Applicant(s)	
	09/651,260	BAEK, JONG SANG	
	Examiner	Art Unit	
	Kimnhung Nguyen	2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to Amendment filed on 6/7/06.
2. The allowed claim(s) is/are 1-3 and 5-10.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

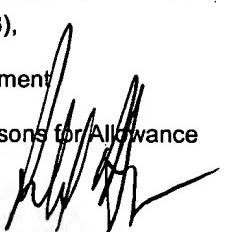
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
 4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
 5. Notice of Informal Patent Application (PTO-152)
 6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
 7. Examiner's Amendment/Comment
 8. Examiner's Statement of Reasons for Allowance
 9. Other _____.
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RICHARD HJERPE
 SUPERVISORY PATENT EXAMINER
 TECHNOLOGY CENTER 2600

DETAILED ACTION

This application has been examined. Claims 1-3, 5-10 are allowed.

Amendment's Examiner

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Eric J. Nuss on 6/16/06

Amendment To Claim 1:

1. A liquid crystal display device with a multi-timing controller, comprising:
 - a liquid crystal display panel having a display standard;
 - an interface receiving a timing data inputted from the exterior thereof and a control signal corresponding to the display standard;
 - a timing controller for latching and outputting the timing data inputted from the interface, and for generating and outputting timing signals for driving the liquid crystal display panel based on the control signal; and
 - a driving circuit for receiving the timing signals outputted from the timing controller to display a picture corresponding to the display standard,
- wherein said timing controller includes a decoder and a timing generator,
- wherein timing generation information corresponding to a plurality of display standards is stored by the decoder,

wherein the decoder outputs, to the timing generator, timing information corresponding to the timing data,

wherein the timing generator outputs timing signals corresponding to the timing information and the control signal,

wherein the timing generator includes a first controller for generating the timing signal corresponding to the timing information selected from the decoder and a second controller for generating a liquid crystal polarity inversion signal indicating a driving voltage polarity of the liquid crystal provided on the liquid crystal display panel and a gate drive starting signal for notifying a first drive line of a field from one vertical synchronizing signal,

a third controller for generating a signal information a sampling start of a data and a source sampling clock for latching a data at the rising or falling edge during one horizontal synchronization period,

a fourth controller for deforming a gate output enable signal generated from the first controller by making the gate output enable signal into a high state during a certain time so as to prevent a latch-up badness in which all the outputs of a gate drive integrate circuit goes to a high state thereby disabling the gate drive integrated circuits, and

a fifth controller for always equally keeping the polarity of the horizontal/vertical synchronizing signal.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number is (571) 272-7698. The examiner can normally be reached on MON-FRI, FROM 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kimnhung Nguyen
June 18, 2006



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